

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

1. (Withdrawn) An apparatus for adding functionality to a portable electronic device, comprising:

a housing sized to be accepted by a housing port of a portable electronic device; and
at least one latch, each latch comprising a first member, a second member, and a third member, each member having a first end and a second end, the first end of the first member connected to the first end of the second member such that the first member and the second member form an angle of between 60° and 130°, the second end of the first member connected to the first end of the third member such that the first member and the third member form an angle of between 60° and 130°;

wherein the housing includes at least one receptacle corresponding to each latch, each receptacle sized and positioned to accept one of the latches and direct said latch to a groove of the portable electronic device so that the third member mates with the groove to secure the housing to the portable electronic device.

2. (Withdrawn) The apparatus of claim 1, further comprising a slip-resistant surface sized to accept a human finger or thumb, the slip-resistant surface connected to the second end of the second member.

3. (Withdrawn) The apparatus of claim 1, wherein the housing includes an interior surface and an exterior surface, and further comprising a notch positioned substantially at a point where the first member connects to the second member, the notch sized and further positioned to engage a raised portion positioned on the interior surface of the housing.

4. (Withdrawn) The apparatus of claim 1, wherein the housing further comprises a hardware interface connector sized and positioned to engage a hardware interface port on the portable electronic device when the housing is positioned on the housing port of the portable electronic device.

5. (Withdrawn) The apparatus of claim 1, further comprising a hardware interface connector sized and positioned within the housing to be accepted by a 120-pin or 120-receptacle hardware interface port.

6. (Currently Amended) An apparatus for adding functionality to a portable electronic device, comprising:

a housing having an interior portion, said housing sized to be accepted received by a housing port of a portable electronic device, said housing port disposed within an interior portion of the portable electronic device; the housing having an interior portion; and

a hardware interface connector disposed connected to a within the interior portion of the housing and in connection with a hardware interface port disposed within the housing port of the portable electronic device, wherein at least a portion of the housing is disposed within the interior portion of the portable electronic device when the hardware interface connector is in connection with the hardware interface port,

~~said hardware interface connector and said hardware interface port positioned within the interior portion of the housing;~~ the hardware interface connector having between 1 and 120 receptacles, the hardware interface port having 120 pins[[]], said receptacles configured to correspond to a pin in the hardware interface port, said receptacles further forming two rows in parallel such that each receptacle is positioned to be numbered corresponding to its position in one of the rows, wherein one of the two rows includes receptacle positions 1 through 60, the other of the two rows includes receptacle positions 61 through 120, receptacle positions 1 and 61

being located at corresponding ends of each row, receptacle positions 60 and 120 being located at opposite ends of each row, receptacle positions 1 and 120 being located at opposite ends of each row, and receptacle positions 60 and 61 being located at opposite ends of each row[[]] ;
and

securing means for securing said portable electronic device to said housing.

7. (Original) The apparatus of claim 6, wherein at least one of the receptacles corresponding to at least one of positions 50, 56, 57, 58, 60, 61, 62, 64, 65, 66, 68, 69, 70, 72, 73, 74, 76, 77, 80, 81, 82, 84, 85, 86, 88, 89, 105, 106, 108, and 110 corresponds to a bus located within the portable electronic device.

8. (Original) The apparatus of claim 6, wherein at least one of the receptacles corresponding to at least one of positions 111, 112, 113, 114, 116, 118, and 120 corresponds to power.

9. (Original) The apparatus of claim 6, wherein at least one of the receptacles corresponding to at least one of positions 3, 5, 7, 9, 11, 15, 19, 23, 27, 31, 35, 39, 47, 51, 55, 59, 63, 67, 71, 75, 79, 83, 87, 91, 95, 99, 103, 107, 109, 115, 117 and 119 corresponds to an electrical ground.

10. (Original) The apparatus of claim 6, wherein at least one of the receptacles corresponding to at least one of positions 90, 92, 93, 96, 97, 100, 101, 102, 104, and 105 corresponds to discrete input to or output from a microprocessor within the portable electronic device.

11. (Original) The apparatus of claim 6, wherein at least one of the receptacles corresponding to at least one of positions 2, 4, 6, 8, 10, 12-14, 16-18, 20-22, 24-26, 28-30, 32-34, 36-38 and 40, corresponds to discrete input to or output from a field programmable gate array within the portable electronic device.

12. (Withdrawn) An apparatus for adding functionality to a portable electronic device, comprising:

a housing means sized to be accepted by a housing part of a portable electronic device;
and

securing means for securing said portable electronic device to said housing;

wherein said securing means includes at least one latch, each latch comprising a first member, a second member, and a third member, each member having a first end and a second end, the first end of the first member connected to the first end of the second member such that the first member and the second member form an angle of between 60 and 130, the second end of the first member connected to the first end of the third member such that the first member and the third member form an angle of between 60 and 130;

wherein said housing means includes at least one receptacle corresponding to each latch, each receptacle sized and positioned to accept one of the latches and direct said latch to a groove of the portable electronic device so that the third member mates with the groove to secure the housing to the portable electronic device.

13. (Withdrawn) The apparatus of claim 12, further comprising:
connecting means for connecting a hardware interface to a hardware interface port,
wherein the hardware interface connection has between 1 and 120 receptacles and the hardware interface port has 120 pins.

14. (Currently Amended) A method of adding functionality to a portable electronic device, comprising the steps of:

sizing a housing to be accepted by a housing port of a portable electronic device, the housing having an interior portion;

~~attaching~~ providing a hardware interface connector disposed within the interior portion of the housing[[:]], said hardware interface connector having between 1 and 120 receptacles,
wherein said receptacles are arranged in two parallel rows such that each receptacle is positioned

to be numbered corresponding to its position in one of the rows, wherein one of the two rows includes receptacle positions 1 through 60, the other of the two rows includes receptacle positions 61 and 120, receptacle positions 1 and 61 being located at corresponding ends of each row, receptacle positions 60 and 120 being located at corresponding ends of each row, receptacle positions 1 and 120 being located at opposite ends of each row, and receptacle positions 60 and 61 being located at opposite ends of each row;

providing a hardware interface port disposed within the housing port, the hardware interface port having 120 pins;

~~connecting the hardware interface port of the portable electronic device to the hardware interface connector within the interior portion of the housing[[]]; the hardware interface connector having between 1 and 120 receptacles, the hardware interface port having 120 pins;~~

~~configuring said receptacles to correspond to a pin in the hardware interface port; and~~

securing the portable electronic device to said housing.

~~wherein said receptacles are arranged in two parallel rows such that each receptacle is positioned to be numbered corresponding to its position in one of the rows, wherein one of the two rows includes receptacle positions 1 through 60, the other of the two rows includes receptacle positions 61 and 120, receptacle positions 1 and 61 being located at corresponding ends of each row, receptacle positions 60 and 120 being located at corresponding ends of each row, receptacle positions 1 and 120 being located at opposite ends of each row, and receptacle positions 60 and 61 being located at opposite ends of each row.~~

15. (Cancelled)

16. (Cancelled)

17. (Currently Amended) An apparatus for adding functionality to a portable electronic device, comprising:

a housing having an interior portion, said housing sized to be received ~~accepted~~ by a housing port of a portable electronic device, said housing port disposed within an interior portion of the portable electronic device~~[[,]]; the housing having an interior portion;~~

a hardware interface connector disposed within the interior portion of the housing and connected to a hardware interface port disposed within the housing port of the portable electronic device, the hardware interface connector having a plurality of receptacles, the hardware interface port having a plurality of pins wherein said receptacles are configured to correspond to a pin in the hardware interface port, wherein at least a portion of the housing is disposed within the interior portion of the portable electronic device when the hardware interface connector is in connection with the hardware interface port; and

securing means for securing said portable electronic device to said housing.

~~said hardware interface connector and said hardware interface port positioned within the interior portion of the housing, the hardware interface connector having a plurality of receptacles, the hardware interface port having a plurality of pins wherein said receptacles are configured to correspond to a pin in the hardware interface port.~~

18. (Currently Amended) The device of claim ~~[[16]]~~ 17 wherein the ~~means for connecting the hardware interface connector to the hardware interface port of the portable electronic device further comprises:~~

hardware interface connector has between 1 and 120 receptacles ~~located in the hardware interface connector~~ and the hardware interface port has 120 pins, ~~located in the hardware interface port;~~

~~a means for configuring said receptacles to correspond to a respective pin in the hardware interface port; and~~

~~a means for forming~~ wherein said receptacles ~~into~~ are arranged in two parallel rows such that each receptacle is positioned to be numbered corresponding to its position in one of the rows, wherein one of the two rows includes receptacle positions 1 through 60, the other of the two rows includes receptacle positions 61 and 120, receptacle positions 1 and 61 being located at corresponding ends of each row, receptacle positions 60 and 120 being located at corresponding ends of each row, receptacle positions 1 and 120 being located at opposite ends of each row, and receptacle positions 60 and 61 being located at opposite ends of each row.